Answer on Question #74147 – Math – Analytic Geometry

Question

Angle between the lines x + 3 = 0 and y + 7 = 0

Solution

The angle θ between the lines having slope m_1 and m_2 is given by $\tan \theta = \pm \frac{m_2 - m_1}{1 + m_1 m_2}$

In our problem we have

 $x + 3 = 0 \Rightarrow x = -3$, Vertical line $y + 7 = 0 \Rightarrow y = -t$, Horizontal line Then lines are perpendicular. Therefore, the angle between the lines x + 3 = 0 and y + 7 = 0 is 90°.